

CLAIMS

What is claimed is:

1. A hose assembly comprising:
 - a hose having a covering layer applied over a tube;
 - a nipple assembly having a nipple fastener formed proximate one end with a nipple extending from the end, the nipple fastener having at least a first thread formed thereon;
 - a socket covering the nipple and having at least a second thread mating with the external thread of the nipple fastener for drawing the socket towards the nipple assembly;
 - a sleeve interposed between the covering layer and the tube and interposed between the socket and the nipple, the sleeve having at least one barb formed on a surface contacting the tube and having a cavity formed to adjoin an end of the tube;
 - an annular sealing member positioned in the cavity to contact the nipple, at least one surface of the cavity, and the tube; and
 - whereby upon rotating the socket relative to the nipple assembly, the sleeve causes the tube to be compressed between the sleeve and the nipple thereby sealing the hose against the nipple assembly.
2. The hose assembly of claim 1, where the annular sealing member is positioned to contact the end of the tube.
3. The hose assembly of claim 1, wherein the annular sealing member includes at least one circumferential ring.
4. A hose coupling assembly comprising:
 - a nipple assembly having a nipple fastener formed at one end with a nipple extending from the end, the nipple fastener having at least a first thread formed thereon;

a socket covering the nipple and having at least a second thread mating with the external thread of the nipple fastener for drawing the socket towards the nipple assembly;

a sleeve interposed between the socket and the nipple, the sleeve including at least one barb for engaging a hose tube and at least partially defining a cavity formed to adjoin an end of the hose tube;

an annular sealing member positioned in the cavity to contact the nipple, at least one surface of the cavity, and the hose tube; and

whereby upon rotating the socket relative to the nipple assembly, the sleeve causes the hose tube to be compressed between the sleeve and the nipple thereby sealing the hose tube against the nipple assembly.

5. The hose coupling assembly of claim 4, where the annular sealing member is positioned to contact the end of the tube.
6. The hose coupling assembly of claim 4, wherein the annular sealing member includes at least one circumferential ring.
7. A hose assembly comprising:
 - a hose having a covering layer applied over a tube;
 - a nipple assembly having a nipple fastener formed proximate one end with a nipple extending from the end;
 - a socket covering the nipple and having a socket fastener mated with the nipple fastener for drawing the socket towards the nipple assembly;
 - a sleeve interposed between the covering layer and the tube and interposed between the socket and the nipple, the sleeve configured to engage the tube and at least partially defining a cavity formed to adjoin an end of the tube;
 - an annular sealing member positioned in the cavity to contact the nipple, at least one surface of the cavity, and the tube; and
 - whereby upon movement of the socket relative to the nipple assembly, the socket causes the covering layer to be compressed

between the socket and the sleeve and the sleeve causes the tube to be compressed between the sleeve and the nipple thereby connecting and sealing the hose to nipple assembly.

8. The hose assembly of claim 7, where the annular sealing member is positioned to contact the end of the tube.
9. The hose assembly of claim 7, wherein the annular sealing member includes at least one circumferential ring.
10. A hose coupling assembly comprising:
 - a nipple assembly having a nipple fastener formed at one end with a nipple extending from the end;
 - a socket covering the nipple and having a socket fastener mated with the nipple fastener for drawing the socket towards the nipple assembly;
 - a sleeve interposed between the covering layer and a hose tube and interposed between the socket and the nipple, the sleeve configured to engage the tube and at least partially defining a cavity formed to adjoin an end of the tube;
 - an annular sealing member positioned in the cavity to contact the nipple, at least one surface of the cavity, and the tube; and
 - whereby upon movement of the socket relative to the nipple assembly, the socket causes the covering layer to be compressed between the socket and the sleeve and the sleeve causes the tube to be compressed between the sleeve and the nipple thereby connecting and sealing the hose to nipple assembly.
11. The hose assembly of claim 10, where the annular sealing member is positioned to contact the end of the tube.
12. The hose assembly of claim 10, wherein the annular sealing member includes at least one circumferential ring.